

status

N E W S L E T T E R

1988 VOLUME 7 ISSUE 2



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SHORTCUTS FOR BBS EXPRESS

By Bob Womack

You are on your fifth board of the night and running short of time, besides, you've had it up past your ears with title screens, news reports, log-on statistic screens, and every gaudy help screen every BBS has ever offered. Now you're waiting for those same screens to snail by at 300 baud (look, I GOTTA have an SX212) on STATUS BBS. Isn't there any way to speed up this incredibly slow log-on business?....Yes there is! Keith Ledbetter wrote BBS Express!, STATUS's BBS program, so that it draws almost all of its visual presentation from text files. He also provided a feature to abort those screens! To kill any screen display, hit CONTROL-C. This halts the display where it stands and sends you either to the next function (as at log-on with three screens) or back to the main menu if you called the screen from there.

Now that you've quickly logged on, how can we save time within the board? Let's check all the new messages in the bases. Let's see, on to the drudgery of calling up each base from the main menu and executing an "N" for "new mail only" command, right? How about something less tedious? At the main menu, hit "Q" for "quickscan". This automatically takes you to each message base and executes an "N" command.

If you get tired of wading through reams of messages, there are two

commands to speed you through. If a particular message isn't interesting to you, hit CONTROL-N to discontinue the listing and view the next message. If the entire message base contains material which you aren't interested in but you wish to continue your scan, hit CONTROL-C to break out and answer "N" to the "Abort Scan?" prompt. To discontinue the scan, do the same but answer "Y" to abort.

To shorten the time it takes to view Library files or InfoBank files, you can CONTROL-C out of the menus as soon as you get the information you need and the "select" prompt will appear as if you had completed the listing.

By the way, on STATUS BBS, new download files are always listed first in the "B" for Browse function so you don't waste time looking through ALL the file just to see the new stuff. So, next time you need to save time, take some legal shortcuts! More hints are available on-line from the InfoBank under "STATUS Tutorial Files". Save it to your copy buffer sometime!, and then print it out for future reference.

DIRECTORY SALVAGE

By Bob Prince

While cleaning up some files the other day I had a dreaded experience. A directory call from DOS produced the feared message "ERROR 144." What was on that disk? I didn't know! All I knew

was that it was a full double density disk of documentation files. So I booted up my trusty disk utility DISKWIZ 2 (vintage 1982 from Jerry Allen). Many other sector editors are available to let you look at the contents of a disk and change anything you like.

What I found confirmed my worst fears - two bad sectors, sector 361 and 362. Unless you know something about Atari file structure, the significance of this is not obvious. After all, what's the big deal about losing 2 sectors of TEXT? Well what that means in this case is that the first two sectors of the DIRECTORY were lost. Short of programming to read the disk contents into a series of files and editing them into meaningful files, the whole disk was useless. (Not quite, since I did manage to copy five files, but you get my point).

Back to DISKWIZ 2. I mapped the disk and found 26 files on it - all consecutive. Then I went to the first sector of each file and read it to see the name of it. Between what I was able to salvage from my disk, what I had in backups and what I found posted in local BBS's I could replace about half of them. That still left 90K bytes of information lost. I decided to try to salvage it. I checked the file links and was relieved to learn they were intact. I reasoned that all I had to do was reconstruct an acceptable directory so DOS could find the start of each file and then copy file by file to another disk.

I guess it's time to have a brief discussion on how DOS manages files. The directory is contained on sectors 361 - 368. That's 8 sectors. Each directory sector has 128 bytes and each file takes 16 bytes to record all necessary information:

INFORMATION BYTE#(S)

FILE STATUS	1
FILE LENGTH (sectors)	2,3
FILE START SECTOR #	4,5
FILENAME	6-13
EXTENSION	14-15

That allows 8 files per directory sector times 8 directory sectors for a maximum of 64 files per disk. For information, all data is shown in hexadecimal (ugh!) and byte pairs are always in low byte-high byte order (for example decimal 525 equals hex B2BD, but would be entered BD B2). File status could be never used (00), normal (42), locked (62), deleted (80), or open (43 or 63).

Next, I called up sector 361 and proceeded to enter the information from my map and manual file scan in the order and format described above. One reason I chose DISKWIZ 2 for this job is that it has some handy features such as a dec-hex conversion, a directory screen print out and a graphic screen dump compatible with my printer (Gemini 10X). The formatted directory proved very useful in checking my editing, and before long I had successfully completed my disk surgery... and learned quite a bit about file structure in the process.

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XL/XE XF551

By Peter Blake

From the PHOENIX Newsletter 2/88

The Toronto Atari Federation Ontario,
Canada

Retyped for SNL by Gene Rodriguez

Well, in the mad rush which we call Boxing Day, I went out and bought myself a new XF551 disk drive. We shall start with the physical description of the drive.

The unit, comes in the standard Atari Grey plastic which matches the 130XE and 65XE. The unit measures 190mm by 300mm and is 72mm high (about the same foot print as the 1050.ed.). The unit I purchased was made in Japan. It has a turn lever similar to the lever on the 1050 drive, however turning the lever down does not activate the drive motor. Also, returning the lever to the horizontal position does not eject the disk which is in the drive. Instead, you have to pull the disk out. This maneuver is made quite easy by a recessed indentation which is more than wide enough for the biggest thumbs.

Like most of the XE and ST line, the power switch has been inconveniently placed on the back of the unit, however, as most users will likely leave the unit on all the time, this is not likely to present too great an inconvenience. In addition to the power switch, there is the socket for the power adaptor, two standard Atari 13-pin S10 peripheral sockets and the drive select switches. Unlike the 810 and 1050 switches, this switch is a

form of DIP switch, which is much easier to use than the old slide-and-hope for the best switches, of the older drives.

A single square green light is illuminated when the drive motor is operating. There is no separate "power on" indicator.

Two rows of Atari "ridges" 32mm wide on the top of the unit as well as holes in the bottom provide for ventilation. The unit is capable of operating in single density, "enhanced" or "dual" or "1050" density as well as true double density.

My unit sounds quite raspy, but there is not the loud chop, chop, chop sounds which characterised the formatting of disks on the 810 and the 1050 drives.

At the moment, the new ADOS, which is being written for the drive by Optimised Systems Software, is not ready, so the unit is being shipped with Atari DOS 2.5. This is not able to take advantage of all of the features and speed of the drive.

In order to try the full power of the unit, I booted SpartaDOS 3.2 from ICD. Then, using XINIT, I tried to format using option 5)-48 tracks, double sided. It worked! When I listed the directory, the listing said 1381 sectors available. Remember, that is 256-byte sector because I formatted in double density. That means that in addition to SpartaDOS, which occupies 12896 bytes, there is 1381 x 256 or

353536 bytes still left on the disk. As I started to fill up a disk, it suddenly became very apparent that I would have to use directories (called "folders" in ST talk) or a directory listing would go on for several screens.

I also tried to format the drive in "1050" density double sided. This time I was greeted with the message "1968 FREE SECTORS". As those are only 128-byte sectors, it meant that there were 251904 bytes still useable on the disk. Good, but not as good as true double density, but still better than a single-sided true double-density disk.

According to the excellent Owners's Manual which comes with the drive, the data transfer rate for "dual(1050)density" is twice that of single density, so I thought that I would test that. I loaded in a fairly long program using both "dual" and true double density. The results? it took 10.1 seconds with "dual" density, and 8.2 seconds with double density. So, I formatted a disk with single density (still using SpartaDOS) and timed again: 9.2 seconds. Finally I copied the same program to a DOS 2.5 disk and tried again. It took 10 seconds. My conclusion: transfer rate appears to be a meaningless concept.

I wish I could tell you more about what I did, but unfortunately, the power supply which came with the drive bit the dust after about 8 hours of operation. It was an old one (hint: It said "Warner Communications Company" on it) So, I shall try to get the power

supply replaced under warranty, and I'll look on the boards to see what ICD has for the XF551 support, and get back to you next month.

From STATUS Thank You....to Peter, and THE TORONTO ATARI FEDERATION for this fine article.

DISKS AVAILABLE!

by Ron Johnson, Membership Chair

STATUS now has three different but exciting NEW disks available for most 8-Bit users.

The Disk One

I'm excited! The new ATARI SX212 Modem arrived under my Christmas tree about the same time that version 3.0 of Express! modified to run the SX212 without an interface became available at a STATUS meeting. I spent a good bit of my Christmas Holiday preparing this disk. I run a 130XE with 320k ram, two 1050 disk drives with US Doublers, SpartaDOS 3.2c, and an Epson FX-80 printer with Dots Perfect upgrade. This system has been used to put Disk One together. The article README.DOC found elsewhere in the Newsletter details the trials and tribulations to get the system to work!.

The two biggest problems that I have running the SX212 without an interface are the occasional 'clearing line' while the phone is ringing or busy and the frustration of having to disconnect the printer to plug in the

modem and visa-versa! But the system does work, if you remember all the little tricks mentioned in the README.DOC.

The disk has material on both sides as follows:

Side A: X32C .DOS

 STARTUP.BAT

 TDLINE.COM

 RD .COM

 HELLO .

 EXP850 .BIN

 CONFIG .EXP

 BOOTUP .BAT

 PHONE1 .LST

SIDE B: X32C .DOS

 XP850 .DOC

 XP850V3 .DOC

 README .DOC

 EXPRESS .LBL

 ARTICLE1.DOC

EXPRESS.LBL makes the sticky labels found on the disk and jacket, while ARTICLE1.DOC is this article. All the rest of the programs are mentioned in the README.DOC. Hard copies are provided of the two EXPRESS! versions, the README.DOC, the STARTUP.BAT, the BOOTUP.EXP, and a listing of the programs on the disk.

The Disk Two

I'm really excited now! To avoid the two problems mentioned in the Disk One section, I purchased the P:R:Connection from ICD. One must also purchase the special modem and printer cables to avoid problem number two above! To avoid creating the problem of

two devices with the P: handler, be sure to disconnect any serial to parallel devices like Ape Face! The P:R:Connection comes with a disk full of software including RSCOPE and EXPRESS! 850 (autorun). I had to open the P:R:C to change switch two from CR only to CR/LF (carriage return/line feed). One may back up the disk as it is totally public domain (DOS 2.5 is used). Finally, AMODEM7.4 is on side two of the disk for those who prefer this terminal program (also autorun). In operation, I have had no problems!!! The same README.DOC applies. The same programs are included as on Disk one, except it has the EXPRESS! for operation with an 850 Interface.

The Disk Three

Thanks to our SYSOP, Bob Womack, for putting together a delightful double sided disk of Christmas goodies. While Christmas '87 is past, this disk should be in every 8-Bit users file! The disk comes with an autorun menu on both sides. Side A has a collection of Christmas pictures that auto fade in and out, the ever popular Christmas Tree Demo with snow, and the exiting program called Delivery- help Santa collect and deliver the presents! Side B contains a full disk of Christmas songs, with the keyboard player. The contents of both sides are clearly noted on attached labels. Side A also has a small DOC file that can be accessed from the menu.

Ordering Info

The three disks may be obtained at any regular meeting or by contacting the club Librarian, Membership Chairman

(see address in README.DOC), or the SYSOP through the BBS. A two dollar (\$2.00) donation for each disk desired to the club's ST fund will cover the costs of reproduction, printing, and mailing! Please remember that to get benefit from the first two disks you must own disk drives with the US Doubler installed and SpartaDOS. However, the system works fine without the US Doubler, although much slower! ICD has said OK to circulate these disks as outlined above.

DISK ONE README

The A side of this disk contains the 850 EXPRESS! designed to run the new Atari SX212 modem with an interface such as the classic Atari 850 or the new ICD P:R:Connection. I have used SpartaDOS 3.2c with a STARTUP.BAT that makes a Ramdisk (D3:), installs the time and date line, turns on the 30-key type ahead buffer, and runs a small basic program to tell you where you are!

Caution! Keith Ledbetter says not to use the type ahead buffer (see page 12 of the XP850.DOC file for the original EXPRESS!) I have used it without any apparent problems on version three of EXPRESS! Caution #2, I am using the R-Time 8 cart so you may want to modify my STARTUP.BAT to eliminate TDLINE or to put in TIME and DATE commands instead.

It loads all the phone lists to D3: for instant access by EXPRESS!. It then boots EXPRESS!, which, in turn, looks for the CONFIG.EXP (personalized for my

tastes!). CONFIG.EXP changes screen color to blue, sets wait for BBS to answer time to 15 seconds, and changes drive default to D3:, the ramdisk. It also looks for the BOOTUP.EXP, which directs commands to the modem-see the manual. A command, not in the manual that I found hidden in XP850V3.DOC being used in the opposite sense, allows the dialing speed to be changed. My SX212 dialed too fast for C&P Telephone to handle. Setting the register S11 to 50 (ATS11=50) seemed to do the trick! I have used this modified program on local boards at both 300 and 1200 BAUD as well as on GEnie at 1200 with no problems.

Well, maybe just a few! The first few nights I spent in total frustration because the line kept being cleared either during the ringing or just when the carrier came on. Also, I had trouble sending direct commands to the modem (AT??, etc.). Several phone calls did little to calm me until Henry Collona, Kent and Nita Irwins' Atari expert at Interface here in Norfolk, reminded me that 8-Bit Atari computers speak ATASCII and the new modem designed to be Hayes compatable speaks ASCII! This means that everything is fine as long as you only send alpha or numeric characters to the modem. But, all control codes like RETURN don't match! In ASCII, a RETURN is decimal 13, which is control-M in ATASCII! So!! The BOOTUP.EXP, therefore, must have a control-M at the line end, followed by a normal RETURN to satisfy DOS:

```
COPY E: D1:BOOTUP.EXP<RETURN>
ATZ<CONTROL-M><RETURN>
```

ATS11=58<CONTROL-M><RETURN>

<CONTROL-3>

This is exactly the way to create the BOOTUP.EXP that I use with the EXPRESS! 850 version on this disk.

After the SX212 detects a carrier and switches to connect mode, the screen usually will have up to one line or so of unreadable characters. Type a <CONTROL-M> at this point, too! (Remember, it is an ASCII RETURN). You should be able to then read the BBS messages and respond accordingly.

I now find that the line will clear or the modem will detect a false carrier only on very few occasions, primarily when the BBS line is busy. Just hit START (if in connect mode) to return to the main terminal program menu, then hit RETURN to disconnect. Finally, type 'D' to re-enter the dial menu mode and start dialing.

There are two ways to communicate directly to the modem via the AT commands while the EXPRESS! is booted. If you are connected to a BBS, type three plus signs in a row rather quickly. The BBS may try to respond, but the modem will take over and give you an 'OK'. Now type in your commands, each one followed by <CONTROL-M>. The modem will respond with an 'OK' after each command sent to it. To get back to BBS control, the last modem command is ATD<CONTROL-M>. The second way is prior to dialing the BBS. From the main EXPRESS! menu, hit ESCAPE to put you in false connect mode. Type your AT codes each one followed by our old friend <CONTROL-M>. Again, the final command

is ATD<CONTROL-M>. For instance, to force the modem to dial the BBS number directly, enter false connect and type ATDT495-3905<CONTROL-M>. But EXPRESS! is designed to do all this work for you!

Side B contains both the original 850 EXPRESS! documentation and the new Version .3 documentation for all three EXPRESS! versions (850, 1030, and MPP). Please note that these docs are in ATARIWRITER PLUS format. I printed them on an Epson FX-80 with DOTS-PERFECT set to emphasized and NLC. Examples are the enclosed disk directories, STARTUP.BAT, and BOOTUP.EXP. The README.DOC is in ATARIWRITER PLUS as is the label on the disk and envelope!

Please remember that SpartaDOS is a copywrited DOS from ICD. Only those using SpartaDOS with US Doublers on the 1050 Drives will derive full use of the system. The extra ram provided by the 320K upgrade recognized by SpartaDOS certainly helps with large file down and uploading, too!

Thanks to Keith Ledbetter for a delightful way to Have Fun! His versions of EXPRESS!, now combined in version 3.00p, have set the standard for telecommunications.

Ocean Ron (Ron Johnson)

STATUS BBS 804-495-3905

GEnie Mail: R.JOHNSON19

ICD Express! OCEAN RON

I welcome any comments, corrections, and/or additions to this disk. Please send them to my home address directly, if you wish:

4715 Newport Avenue

Norfolk, VA 23508

(eds note) Please lets not forget that the Express! programs were made available under the Shareware Software concept. ie, if you use them you are asked to make your contributions direct to the programmer:

Keith Ledbetter
2919 Ennismore Ct.
Richmond, Va. 23224

SPARTA DOS & US DOUBLER

BY Bob Womack

Why YOU need SpartaDos and the US Doubler

Time.... Face it, none of us have enough of it. Money.... Always in short supply. Given this, why am I suggesting you spend the money and time to purchase and learn to use a new disk operating system? To save you some of BOTH of these commodities. What???Okay, off the top it's going to cost you some time and money. The cost of SpartaDos and the US Doubler as a package is \$60.00. The cost in time is however long it takes you to install the Doubler in your 1050 drive (it took me about an hour but I'm cautious) plus some time learning to manipulate a new Dos. That's made easier by the fact that all the commands are words which you type in. But look what you get in return:

The US Doubler allows your drive to read and write TRUE double density which is 256 bytes per sector (twice

that of single density) and 720 sectors (the same number as single density), thus allowing you TWICE the storage space of single density and roughly a third more space than 1050 "dual" density. That means for every \$9.00 box of name-brand disks you get roughly a \$3.00 savings in storage space over 1050 dual density and a \$4.50 savings over single.

Another great feature of the US Doubler when teamed with SpartaDos, is "Ultra-Speed". This feature is a combination of increasing the baud rate of information exchange between your 1050 drive and computer (from 19.2k to 54k) and writing an alternate disk format which allows the drive to operate THREE times faster. In practice, this means a program on an Ultra-Speed disk will boot a little over TWICE as fast! An example: 1030 Express 3.0 (with configuration and phone list files) boots in 38 seconds from a normal disk and in 17 seconds from an Ultra-Speed disk. Not too shabby, huh?

Okay, we've taken care of saving you time and money. What about the features and complexion of SpartaDos? Do you get tired of waiting for your computer to crunch through an operation before you can enter your next command? SpartaDos offers a thirty-two character "type-ahead" buffer for the keyboard which allows you to type in your next command even if the computer is accessing the disk drive! The keyboard repeat rate defaults to a faster rate than in Atari Dos so your cursor really flies!

I'm sure you've stared at an Atari Dos directory listing on a disk with about thirty files on it and thought, "There ought to be a way to look at only a few related files without having to play wildcard games...". Enter SpartaDos subdirectories. A subdirectory is a directory which can be called from the main directory, which allows you to group together files with like content or format. So, you could have a disk named "GAMES" with one subdirectory named "BASIC" and another named "BINARY". You no longer have to wade through reams of interlaced "BAS" and "BIN" extenders to find the file you want!

But wait a minute, did you say a disk named "GAMES"? Yup. SpartaDos allows you to put a name on each disk which shows up at the top of your directory listing. But that's not all that's different about Sparta directory listings. Directories are listed with byte counts for each file instead of sector counts, so it's easier to keep track of the size of files as you move between single and double densities. When a file is saved, Sparta notes the time and date when it was saved and affixes them to the filename, so you can always tell which version of a file is the newest.

Of course, if you have BASIC and BINARY games together, you are going to spend plenty of time rebooting with and without BASIC in a really serious gaming session, right? WRONG. For XL and XE owners, Sparta provides a Dos command which switches the internal BASIC on and off instantly. Sha-zaam,

sar-gent..

"Okay", you say, "There've got to be some drawbacks to this thing". Of course there are. All commands are executed by typing in words such as COPY, PROTECT, and ERASE, so you are going to expend a few keystrokes. This is somewhat balanced off by the fact that binary files are loaded and run by typing in their name ONLY, with no command.

Some commands are in the form of binary disk files so they must be on a disk in one of your drives to be used. Of course, this does allow you to control which commands can be used by not including the ones you want to avoid on the current disk. SpartaDos calls this "construction"... Also, there are a few files which aren't compatible with Sparta, very few (aren't there always?). There is only one commercial program I know of which won't run on a doubled 1050 drive: Atari's "Planetarium".

There's one more little "drawback": There are none of those little command confirmation prompts you see everywhere in Atari Dos. If you type "ERASE *.*" there'd better be nothing on the current disk that you want to save, but then again few things are forever. SpartaDos includes an UNERASE command in case you make a mistake.

"But wait!", you say. "Most of my stuff is in Atari Dos and I don't want to convert it all over. Sorry, this just isn't an excuse. The boys from

ICD, Inc. were thinking of this one when they put this package together. You see, SpartaDos has always been about 85% backwards compatible to Atari Dos 2.0 and 2.5, and the latest versions (vers. 3 and forward) increase this to about 95%! You don't have to copy and/or convert your old files. Leave them on the same disks. No problem. The one limitation is that SpartaDos won't write to the sectors above 720 in 1050 dual density. But that's okay. You'll probably want to put as many of your often-used files as possible on Ultra-Speed disks to save access time!

So, if you want to save yourself some time, aggravation, and money, AND breathe new life into your 8-bit computer at the same time, pick up SpartaDos and the US Doubler. Every time you hear the machine-gun sound of Ultra-Speed disk access, you'll be glad you did!

SPARTADOS from ICD, Inc,
SPARTADOS only: \$48.00
US Doubler only: \$35.00
Package price: \$60.00

NEWSFLASH!

MINI-FLOPPY SERVICE CLOSES!

By Ron Johnson

Les Logan of Mini-Floppy Service at Five Points, Norfolk, closed his door Dec. 31, and retired from disk drive repair!

However, CT, an employee, bought his equipment and has opened her own disk drive repair shop! She is located at:

CT's Disk Drive Repair Shop
2859 VA Beach Blvd.
Suite 103-H.
Ph. 463-4895

Hours: 10 - 6 Mon - Sat

This is in the same building as Pier One Imports, near the Lynnhaven Exit of the Va. Beach Expressway Tollroad.

Repair costs are similiar to those charged by Les. CT says that right now the turn around time is less than one week for cleaning and aligning. Major repair may take longer. She will work on both 5&1/4 and 3&1/2 drives.

(Eds note:) According to our sources, CT was the technician who repaired the ATARI drives, and is well qualified to continue to provide the fine service we have come to appreciate in the past.

NEW MEMBERS

STATUS would like to recognize and welcome the following NEW or returning members:

Pat Dabney-Va. Beach
Okey Townsend-Va. Beach
Bob Gartman- Va. Beach
Dan Wyatt- Chesapeake
Chuck Keeter- Va. Beach
Ron Johnson- Norfolk
Ellis Malabad-Va. Beach
Bob Clendening-Va. Beach
Rich Callahan- Va. Beach

Jimbo Blain-Va. Beach
Dick Litchfield-Va. Beach
Ed Lupienski- Norfolk
Ray & Judy Franklin-Chesapeake
Jim Anderson-Va. Beach

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ATARI SHOW!

The Pittsburgh ACE group is sponsoring the Tri State Atari Products Show on April 23 and 24, 1988. Show hours are from 10:00 am to 6:00 pm on the 23rd and 12:00 noon to 5:00 pm on Sunday the 24th.

The show is being held at the Robert Morris College in Moon Township, a suburb of Pittsburgh. It is close to the Pittsburgh Airport, convenient to hotels and is accessible by public transportation.

Further information can be obtained by by contacting Preident Lanny Shoup, PACE, at P.O. Box 13435, Pittsburgh Pa. 15243.

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THE PRESIDENTS BIT

Playing video games is again on the rise! Nintendo and Sega have taken a back seat this year to Atari though. All retailers and distributors reportedly sold out of the new XE Game Machine well before Christmas. The retail store shelves are now full of cartridge versions of many past favorites, One On One, Lode Runner, and more coming in everyday. Why? According to Neil Harris "a market we could not afford to deny".

But where are the new products promised for the existing user base? In a letter to a Florida user group, Atari's own Neil Harris states that only 20% of the Atari products manufactured come to the USA. The rest go to Europe where there is a larger user base and the demand is higher. This has prompted Atari to build 2 assembly plants in the US in early '88. Coupled with the falling value of the dollar and the Yen, it is now possible to manufacture goods here cheaper. And, with the Federated Chain Stores, they have waiting retail outlets.

On behalf of the entire membership, I would like to thank Marshall Rhodes for his hardware donations to the club, and to Dick Litchfield for his project on RAM upgrades which has generated a substantial amount towards our ST purchase.

This month we will elect officers for the '88-'89 term. I would like to thank each and every one of you for helping me implement changes and carry out ideas for improvement of STATUS over the past year. Gee, it went by fast! We already have an impressive list of projects for this coming year: Participation in the 1988 Tidewater Science Fair, Computer Day at the Mall, a club picnic, and purchasing an ST for the club. Together, we can make these projects successful and beneficial to us all.

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Please address all Newsletter correspondence to:

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Meetings: STATUS meetings are held on the first and third Thursdays of the month at the 7-UP Bottling Company, 5700 Ward Avenue, in Virginia Beach at 7:30 p.m. All interested parties are welcome to attend.

Newsletter Articles:

Submitted articles are preferred as disk text files, but will be greatly accepted as hard copy (including handwriting) if you do not have a disk drive. If you have a modem, you can upload your articles to the Editor by calling the STATUS BBS at 495-3905. Articles may be submitted at any time, but will probably not make that month's Newsletter if submitted less than one week prior to the first meeting of the month.

STATUS

Newsletter Exchange

4836 Honeygrove Road

Virginia Beach, VA 23455

(804) 499-6021